copy

Amoco Oil Company
Wood River Refinery
Post Office Box 182
Wood River, Illinois 62095
Manufacturing Department
618-251-2200

F. K. Webb
Manager

August 26, 1980

Midwest Sanitary Service
1201 Dunn Road
St. Louis, Missouri 63138

Gentlemen:

Attached is a copy of an analysis of sludge from the Dissolved Air Flotation (DAF) system of our Waste Water Treatment Plant. The sample analyzed was labeled "Float from Impoundment Area June 2, 1980." We have found that we can press much of the water out of this material reducing the volume to about 15% of material subjected to this analysis. But this would not significantly change the "dry basis" analysis. The texture of the pressed material is quite similar to the pressed "digested sludge" from our Waste Water Treatment Plant that you currently handle in special trailers to the Brighton Landfill. The pick-up point is the same, at the Waste Water Treatment Plant. The DAF sludge does contain more oil than the "digested sludge."

Other pertinent information:

pH	(1)
Toxicity, inhalation	Low
dermal	Low
ingestive	Medium
Infectious	Low
Reactivity	Low
Flash Point	120°F (COC) (2)

(1) A slurry of this material in water has a pH of 7-9.

(2) Semi-solid material containing some oil so would be combustible, but hard to ignite.

We will appreciate your expediting this application because we already have both our special trailers full of pressed DAF float and need to dispose of about four tons per day.

Yours truly,

F. K. Webb

RSM/de

Attachment

PHONE 1-314-921-4488

ENVIRONMENTAL ANALYSIS, INC.

ANALYTICAL CHEMISTRY - RESEARCH - FIELD STUDIES

3363 PARKER SPUR FLORISSANT, MO. 63033

August 15, 1980
Report No: 6547
P.O. No: 802-9-10186

RIVER REFINERY
UG 19 '80

Mr. E. J. Sullivan
AMOCO OIL COMPANY
Post Office Box 182
400 South Main Street
Wood River, Illinois 62095

REPORT OF ANALYSIS

Subject: Profile Test was performed in accordance with I.E.P.A. "Appendix B" for total trace metal content in benthic muds, sludges and other metal bearing waste materials prepared by Scot A. Miller, Stephen M. Muir and Frank J. Schmidt.

Flash point was performed by Cleveland Open Cup Standard Method of Chemical Analysis, S. J. Welcher, 6th Edition, 1975.

Analysis for U.S.E.P.A. Leachate Test was performed in accordance with Environmental Protection Agency Federal Register, Monday, May 19, 1980, Section 261.24 Appendix II - EP Toxicity Test Procedure.

Sample Identification: Sample marked as: Float from Impoundment Area, June 2, 1980.

Results of Analysis: See attached sheet.

Respectfully submitted,

R. M. Ferris
President, EAI

RMF/jq

I.E.P.A. Profile Test

Tests	Float from Impoundment Area, I.E.P.A. Profile Test (dry basis) June 2, 1980
Arsenic, ug As/g	6.5
Cadmium, ug Cd/g	0.4
Trivalent Chromium, ug Cr/g	< 1
Hexavalent Chromium, ug Cr/g	20.0
Copper, ug Cu/g	164
Mercury, ug Hg/g	6.0
Nickel, ug Ni/g	32.0
Lead, ug Pb/g	1043
Zinc, ug Zn/g	2380
Silver, ug Ag/g	24.0
Barium, ug Ba/g	215
Selenium, ug Se/g	1.5
Flash point (C.O.C.) °F	120 *

* Run on sample as received.

U.S.E.P.A. - EP Toxicity Test

Tests	Float from Impoundment Area, U.S.E.P.A. - EP Toxicity Test (as rec'd) June 2, 1980
Lead, mg Pb/l	0.95
Zinc, mg Zn/l	11.4
Barium, mg Ba/l	1.08